

Title (en)  
DISPENSING DEVICE WITH DRIVE MECHANISM HAVING CONVERGING RAMPS

Title (de)  
AUSGABEVORRICHTUNG MIT ANTRIEBSMECHANISMUS MIT KONVERGIERENDEN RAMPEN

Title (fr)  
DISPOSITIF DE DISTRIBUTION COMPORTANT UN MÉCANISME D'ENTRAÎNEMENT COMPRENANT DES RAMPES CONVERGENTES

Publication  
**EP 3848073 A1 20210714 (EN)**

Application  
**EP 21160182 A 20160310**

Priority

- US 201562134865 P 20150318
- EP 16710630 A 20160310
- US 2016021647 W 20160310

Abstract (en)  
A dispensing device for dispensing medication from a medication container. The dispensing device includes a housing, a drive member engageable with the medication container, at least one first ramp surface fixed relative to the housing, a driver movable within the housing to move the drive member for forcing medication from the medication container, the driver including at least one second ramp surface, and a plunger including at least one push module movable relative to the housing from a ready position to a plunged position. The at least one first ramp surface and the at least one second ramp surface have a complementary configuration to cause the driver to be moved to force medication from the medication container by a driving force applied to the at least one second ramp surface by the at least one push module as the at least one push module simultaneously engages both the at least one first ramp surface and the at least one second ramp surface during movement of the plunger from a ready position to a plunged position.

IPC 8 full level  
**A61M 5/20** (2006.01); **A61M 5/24** (2006.01); **A61M 5/28** (2006.01); **A61M 5/315** (2006.01)

CPC (source: CN EP US)  
**A61M 5/20** (2013.01 - CN EP US); **A61M 5/24** (2013.01 - CN EP US); **A61M 5/28** (2013.01 - CN EP US); **A61M 5/31511** (2013.01 - CN EP US); **A61M 5/31565** (2013.01 - CN EP US); **A61M 5/31578** (2013.01 - CN EP US); **A61M 2005/3152** (2013.01 - EP)

Citation (search report)

- [A] EP 2438946 A1 20120411 - SANOFI AVENTIS DEUTSCHLAND [DE]
- [A] WO 2005097233 A2 20051020 - LILLY CO ELI [US], et al
- [A] WO 2005097240 A1 20051020 - LILLY CO ELI [US], et al
- [A] WO 03080160 A1 20031002 - LILLY CO ELI [US], et al
- [A] WO 2015017550 A1 20150205 - BECTON DICKINSON CO [US]

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**WO 2016149014 A1 20160922**; AU 2016233668 A1 20170810; AU 2016233668 B2 20181213; CA 2975629 A1 20160922; CA 2975629 C 20190917; CN 107427638 A 20171201; CN 107427638 B 20200623; EA 201791812 A1 20180228; EP 3270988 A1 20180124; EP 3270988 B1 20211201; EP 3848073 A1 20210714; EP 3848073 B1 20220921; ES 2901760 T3 20220323; ES 2932434 T3 20230119; IL 253613 A0 20170928; JP 2018508296 A 20180329; JP 6563025 B2 20190821; MA 41779 A 20210407; MX 2017011859 A 20171207; US 10828423 B2 20201110; US 2018064882 A1 20180308

DOCDB simple family (application)  
**US 2016021647 W 20160310**; AU 2016233668 A 20160310; CA 2975629 A 20160310; CN 201680016120 A 20160310; EA 201791812 A 20160310; EP 16710630 A 20160310; EP 21160182 A 20160310; ES 16710630 T 20160310; ES 21160182 T 20160310; IL 25361317 A 20170723; JP 2017548424 A 20160310; MA 41779 A 20160310; MX 2017011859 A 20160310; US 201615554441 A 20160310